

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Claim 1 (Currently amended):** An apparatus for supporting an endoscope that extends through a cannula for viewing a surgical site in a patient during surgery on the patient, said apparatus comprising:

a base having means for associating said base for association with the cannula, said base having a guide portion;

a first part adapted to be fixed to the endoscope;

a second part engaging said guide portion and being movable relative to said guide portion, said first and second parts being movable together relative to said guide portion; and

a mechanism connected between said base and said second part for moving said first and second parts relative to said guide portion to change a position of the endoscope relative to the cannula and the patient.

**Claim 2 (Canceled)**

**Claim 3 (Currently amended):** The apparatus as set forth in claim 49 2 further including a connection between said base and said sleeve, said connection enabling said base to rotate relative to said sleeve about an axis of the cannula, said connection including an index

mechanism with parts interposed between said base and said sleeve for retaining said base at incremental relatively rotated positions relative to said sleeve.

**Claim 4 (Currently amended):** The apparatus as set forth in claim 49 2 wherein said sleeve engages an outer surface of the cannula, said sleeve and said base being relatively rotatable about an axis of the cannula.

**Claim 5 (Original):** The apparatus as set forth in claim 4 wherein said sleeve has an annular retaining lip for engaging an upper end of the cannula and limiting axial movement of the cannula relative to said sleeve, said annular retaining lip extending radially inward toward an axis of the cannula.

**Claim 6 (Original):** The apparatus as set forth in claim 4 further including a sleeve retainer for supporting said base and said sleeve, said sleeve retainer including a member press fit onto an end portion of said sleeve.

**Claims 7-10 (Canceled)**

**Claim 11 (Currently amended):** The apparatus as set forth in claim 53 ~~40~~ wherein said second threaded spindle has a radially extending shoulder portion for engaging said lip portion of said first threaded spindle.

**Claim 12 (Original):** An apparatus for supporting an endoscope for viewing a surgical site in a patient during surgery on the patient, the endoscope extending through a cannula into the patient, said apparatus comprising:

a base; and

a cannula retainer for engaging an outer surface of the cannula to secure the cannula to said cannula retainer, said cannula retainer including a split ring for engaging a groove on the outer surface of the cannula and a sleeve for receiving the cannula and supporting said split ring,

said base being rotatable relative to said sleeve about an axis of the cannula.

**Claim 13 (Original):** The apparatus as set forth in claim 12 wherein said base includes a guide portion, and further including a first part to be fixed to the endoscope and a second part engaging said guide portion, said first and second parts being movable together relative to said guide portion.

**Claim 14 (Original):** The apparatus as set forth in claim 12 further including a sleeve retainer for supporting said base and said sleeve, said sleeve retainer including a ring member press fit onto an end portion of said sleeve.

**Claim 15 (Original):** The apparatus as set forth in claim 12 wherein said sleeve has at least one slot and an initial internal diameter that increases as the cannula is inserted into said sleeve such that said sleeve clamps against the cannula.

**Claim 16 (Original):** The apparatus as set forth in claim 12 wherein said sleeve has an annular retaining lip for engaging an upper end of the cannula and limiting axial movement of the cannula relative to said sleeve.

**Claim 17 (Original):** The apparatus as set forth in claim 15 wherein said sleeve includes an annular bead disposed on an inner surface of said sleeve, said annular bead being adapted to secure the cannula to said sleeve.

**Claim 18 (Currently amended):** An apparatus for supporting an endoscope for viewing a surgical site in a patient during surgery on the patient, the endoscope extending through a cannula into the patient, said apparatus comprising:

a base for supporting the endoscope extending through the cannula into the patient;

a sleeve having means for receiving the cannula, said base and said sleeve being relatively rotatable about an axis of the cannula; and

a sleeve retainer for supporting said sleeve and said base, said sleeve retainer including a member press fit axially onto an end portion of said sleeve.

**Claims 19-20 (Canceled)**

**Claim 21 (Original):** The apparatus as set forth in claim 18 further including a connection between said base and said sleeve, said connection enabling said base to rotate relative to said sleeve about the axis of the cannula, said connection including an index mechanism with parts interposed between said base and said sleeve for retaining said base at incremental relatively rotated positions relative to said sleeve.

**Claims 22-24 (Canceled)**

**Claim 25 (Currently amended):** The apparatus as set forth in claim 58 24 wherein said second threaded spindle has a radially extending shoulder portion for engaging said lip portion of said first threaded spindle.

**Claim 26 (Previously presented):** An apparatus for supporting an endoscope for viewing a surgical site in a patient during surgery on the patient, the endoscope extending into a cannula and into the patient, said apparatus comprising:

a base for supporting the endoscope;

a sleeve for receiving the cannula, said base and said sleeve being relatively rotatable about an axis of the cannula; and

a support arm for securing said sleeve to a support structure, said support arm including a first portion for connection to said sleeve and a second portion for interconnecting said first portion and the support structure, said first portion comprising an electrically insulating material electrically insulating said sleeve from said second portion.

**Claim 27 (Original):** The apparatus as set forth in claim 26 further including a first part to be fixed to the endoscope and a second part adjustably engaging said base, said first part and said second part being vertically movable together relative to said base.

**Claim 28 (Original):** The apparatus as set forth in claim 27 wherein said sleeve has an annular retaining lip for engaging an upper end of the cannula and limiting axial movement of the cannula relative to said sleeve, said annular retaining lip extending radially inward toward the axis of the cannula.

**Claim 29 (Original):** The apparatus as set forth in claim 26 wherein said sleeve is part of a cannula retainer, said cannula retainer further including a split ring for engaging a first groove on the outer surface of the cannula and a second groove on an inner surface of said sleeve.

**Claim 30 (Original):** The apparatus as set forth in claim 29 further including a connection between said base and said sleeve, said connection enabling said base to rotate relative to said sleeve about the axis of the cannula, said connection including an index mechanism with parts interposed between said base and said sleeve for retaining said base at incremental relatively rotated positions relative to said sleeve.

**Claim 31 (Original):** The apparatus as set forth in claim 26 wherein said sleeve has an annular bead and at least one slot such that an initial internal diameter of said annular bead can increase as the cannula is inserted into said sleeve and subsequently spring back toward said initial diameter.

**Claim 32 (Original):** An apparatus for supporting an endoscope for viewing a surgical site in a patient during surgery on the patient, said apparatus comprising:

a base having a guide portion;

a first part to be fixed to an endoscope, a second part movable in said guide portion and connected with said first part, said first and second parts being movable together relative to said guide portion;

a screw mechanism connected to said second part and operable to move said first and second parts relative to said guide portion; and

a pin for securing said second part to said screw mechanism, said pin being press fit into recesses in both said second part and said screw mechanism.

**Claim 33 (Original):** The apparatus as set forth in claim 32 further including a cannula retainer engaging an outer surface of a cannula and securing said cannula to said cannula retainer, said cannula retainer including a sleeve for receiving said cannula and a split ring for engaging a groove on said outer surface of said cannula.



**Claim 34 (Original):** The apparatus as set forth in claim 33 wherein said sleeve has an annular retaining lip for engaging an upper end of the cannula and limiting axial movement of the cannula relative to said sleeve.

**Claim 35 (Original):** The apparatus as set forth in claim 33 further including a connection between said base and said sleeve, said connection enabling said base to rotate relative to said sleeve about an axis of said sleeve, said connection including an index mechanism with parts interposed between said base and said cannula for retaining said base at incremental relatively rotated positions relative to said sleeve.

**Claim 36 (Original):** The apparatus as set forth in claim 32 further including a sleeve for engaging an outer surface of a cannula, said sleeve and said base being relatively rotatable about an axis of the cannula.

**Claim 37 (Original):** The apparatus as set forth in claim 36 further including a sleeve retainer for supporting said sleeve and said base, said sleeve retainer including a ring member press fit onto an end portion of said sleeve.

**Claim 38 (Original):** The apparatus as set forth in claim 32 further including a cylindrical sleeve for engaging an outer surface of a cannula, said sleeve having an internal bead having an internal diameter that increases from an initial diameter as the cannula is inserted into said sleeve and that subsequently springs back toward said initial diameter.

**Claim 39 (Currently amended):** An apparatus for supporting an endoscope for viewing a surgical site in a patient during surgery on the patient, the endoscope extending through a cannula into the patient, said apparatus comprising:

a base for supporting the endoscope extending through the cannula into the patient;

a sleeve having means for engaging an outer surface of the cannula, said base and said sleeve being relatively rotatable about an axis of the cannula; said sleeve having an internal diameter that increases from an initial diameter as the cannula is inserted into said sleeve and that subsequently springs back toward said initial diameter so that said sleeve grips the cannula.

**Claim 40 (Canceled)**

**Claim 41 (Currently amended):** The apparatus as set forth in claim ~~59~~ 40 further including a connection between said base and said

sleeve, said connection enabling said base to rotate relative to said sleeve about the axis of the cannula, said connection including an index mechanism with parts interposed between said base and said sleeve for retaining said base at incremental relatively rotated positions relative to said sleeve.

**Claims 42-43 (Canceled)**

**Claim 44 (Original):** An apparatus for supporting an endoscope for viewing a surgical site in a patient during surgery on the patient, said apparatus comprising:

a base having a guide portion;

a structure adapted to be fixed to the endoscope, said structure engaging said guide portion and being movable relative to said guide portion; and

a screw mechanism connected between said base and said structure, at least a portion of said screw mechanism being rotatable to slide said structure relative to said guide portion to change a position of the endoscope relative to the patient,

said screw mechanism including a first threaded spindle having female threads and a second threaded spindle rotatable about an axis relative to said female threads in said first threaded spindle, said first

threaded spindle having a lip portion for limiting axial displacement of said first threaded spindle relative to said second threaded spindle.

**Claim 45 (Original):** The apparatus as set forth in claim 44 wherein said structure comprises a first part adapted to be fixed to the endoscope and a second part vertically movable relative to said guide portion, said first and second parts being movable together relative to said guide portion.

**Claim 46 (Original):** The apparatus as set forth in claim 44 further including a sleeve engaging an outer surface of a cannula, and a split ring supported by said sleeve for engaging a groove on said outer surface of said cannula.

**Claim 47 (Original):** The apparatus as set forth in claim 46 further including a connection between said base and said sleeve, said connection enabling said base to rotate relative to said sleeve about an axis of said cannula, said connection including an index mechanism with parts interposed between said base and said cannula for retaining said base at incremental relatively rotated positions relative to said cannula.

**Claim 48 (Original):** The apparatus as set forth in claim 46 further including a sleeve retainer for supporting said base and said sleeve, said sleeve retainer including a ring member press fit onto an end portion of said sleeve.

**Claim 49 (New):** An apparatus for supporting an endoscope that extends through a cannula for viewing a surgical site in a patient during surgery on the patient, said apparatus comprising:

- a base for association with the cannula, said base having a guide portion;

- a first part adapted to be fixed to the endoscope;

- a second part engaging said guide portion and being movable relative to said guide portion, said first and second parts being movable together relative to said guide portion;

- a mechanism connected between said base and said second part for moving said first and second parts relative to said guide portion to change a position of the endoscope relative to the patient; and

- a cannula retainer for engaging an outer surface of the cannula to secure the cannula to said cannula retainer, said cannula retainer including a split ring for engaging a groove on the outer surface of the cannula and a sleeve supporting said split ring.

**Claim 50 (New):** An apparatus for supporting an endoscope that extends through a cannula for viewing a surgical site in a patient during surgery on the patient, said apparatus comprising:

- a base for association with the cannula, said base having a guide portion;

- a first part adapted to be fixed to the endoscope;

- a second part engaging said guide portion and being movable relative to said guide portion, said first and second parts being movable together relative to said guide portion;

- a mechanism connected between said base and said second part for moving said first and second parts relative to said guide portion to change a position of the endoscope relative to the patient; and

- a sleeve for engaging the cannula and a support arm for securing said sleeve to a support structure, said support arm including a first portion for connection to said sleeve and a second portion for interconnecting said first portion and the support structure, said first portion comprising an electrically insulating material electrically insulating said sleeve from said second portion.

**Claim 51 (New):** An apparatus for supporting an endoscope that extends through a cannula for viewing a surgical site in a patient during surgery on the patient, said apparatus comprising:

a base for association with the cannula, said base having a guide portion;

a first part adapted to be fixed to the endoscope;

a second part engaging said guide portion and being movable relative to said guide portion, said first and second parts being movable together relative to said guide portion; and

a mechanism connected between said base and said second part for moving said first and second parts relative to said guide portion to change a position of the endoscope relative to the patient;

said first part including at least one rail member for slidably engaging a guide track of said second part.

**Claim 52 (New):** An apparatus for supporting an endoscope that extends through a cannula for viewing a surgical site in a patient during surgery on the patient, said apparatus comprising:

a base for association with the cannula, said base having a guide portion;

a first part adapted to be fixed to the endoscope;

a second part engaging said guide portion and being movable relative to said guide portion, said first and second parts being movable together relative to said guide portion;

a mechanism connected between said base and said second part for moving said first and second parts relative to said guide portion to change a position of the endoscope relative to the patient; and

a cylindrical sleeve for receiving the cannula, said sleeve having at least one slot and an initial internal diameter that increases as the cannula is inserted into said sleeve such that said sleeve clamps against the cannula.

**Claim 53 (New):** An apparatus for supporting an endoscope that extends through a cannula for viewing a surgical site in a patient during surgery on the patient, said apparatus comprising:

a base for association with the cannula, said base having a guide portion;

a first part adapted to be fixed to the endoscope;

a second part engaging said guide portion and being movable relative to said guide portion, said first and second parts being movable together relative to said guide portion; and

a mechanism connected between said base and said second part for moving said first and second parts relative to said guide portion to change a position of the endoscope relative to the patient, said mechanism including a first threaded spindle and a second threaded spindle rotatable about an axis relative to said first threaded spindle, said first threaded



spindle having a lip portion for limiting axial displacement of said first threaded spindle relative to said second threaded spindle.

**Claim 54 (New):** An apparatus for supporting an endoscope for viewing a surgical site in a patient during surgery on the patient, the endoscope extending through a cannula into the patient, said apparatus comprising:

a base for supporting the endoscope;

a sleeve for receiving the cannula, said base and said sleeve being relatively rotatable about an axis of the cannula;

a sleeve retainer for supporting said sleeve and said base, said sleeve retainer including a member press fit onto an end portion of said sleeve; and

a first part to be fixed to the endoscope and a second part for slidably engaging said base, said first part and said second part being vertically movable together relative to said base.

**Claim 55 (New):** An apparatus for supporting an endoscope for viewing a surgical site in a patient during surgery on the patient, the endoscope extending through a cannula into the patient, said apparatus comprising:

a base for supporting the endoscope;

a sleeve for receiving the cannula, said base and said sleeve being relatively rotatable about an axis of the cannula; and

a sleeve retainer for supporting said sleeve and said base, said sleeve retainer including a member press fit onto an end portion of said sleeve, said sleeve being a part of a cannula retainer, said cannula retainer further including a split ring for engaging a first groove on the outer surface of the cannula and for engaging a second groove on an inner surface of said sleeve.

**Claim 56 (New):** An apparatus for supporting an endoscope for viewing a surgical site in a patient during surgery on the patient, the endoscope extending through a cannula into the patient, said apparatus comprising:

a base for supporting the endoscope;

a sleeve for receiving the cannula, said base and said sleeve being relatively rotatable about an axis of the cannula; and

a sleeve retainer for supporting said sleeve and said base, said sleeve retainer including a member press fit onto an end portion of said sleeve, said sleeve retainer comprising an electrically insulating material electrically insulating said sleeve.

**Claim 57 (New):** An apparatus for supporting an endoscope for viewing a surgical site in a patient during surgery on the patient, the endoscope extending through a cannula into the patient, said apparatus comprising:

a base for supporting the endoscope;

a sleeve for receiving the cannula, said base and said sleeve being relatively rotatable about an axis of the cannula; and

a sleeve retainer for supporting said sleeve and said base, said sleeve retainer including a member press fit onto an end portion of said sleeve;

said sleeve having an initial internal diameter that increases as the cannula is inserted into said sleeve such that the sleeve clamps against the cannula.

**Claim 58 (New):** An apparatus for supporting an endoscope for viewing a surgical site in a patient during surgery on the patient, the endoscope extending through a cannula into the patient, said apparatus comprising:

a base for supporting the endoscope;

a sleeve for receiving the cannula, said base and said sleeve being relatively rotatable about an axis of the cannula;

a sleeve retainer for supporting said sleeve and said base, said sleeve retainer including a member press fit onto an end portion of said sleeve; and

a mechanism for axially adjusting the endoscope relative to said base, said mechanism including a first threaded spindle and a second threaded spindle rotatable about an axis relative to said first threaded spindle, said first threaded spindle having a lip portion for limiting axial displacement of said first threaded spindle relative to said second threaded spindle.

**Claim 59 (New):** An apparatus for supporting an endoscope for viewing a surgical site in a patient during surgery on the patient, the endoscope extending through a cannula into the patient, said apparatus comprising:

a base for supporting the endoscope;

a sleeve for engaging an outer surface of the cannula, said base and said sleeve being relatively rotatable about an axis of the cannula, said sleeve having an internal diameter that increases from an initial diameter as the cannula is inserted into said sleeve and that subsequently springs back toward said initial diameter so that said sleeve grips the cannula, said sleeve being part of a cannula retainer, said cannula retainer further including a split ring for engaging a groove on the outer surface of the cannula.

**Claim 60 (New):** An apparatus for supporting an endoscope for viewing a surgical site in a patient during surgery on the patient, the endoscope extending through a cannula into the patient, said apparatus comprising:

a base for supporting the endoscope;

a sleeve for engaging an outer surface of the cannula, said base and said sleeve being relatively rotatable about an axis of the cannula, said sleeve having an internal diameter that increases from an initial diameter as the cannula is inserted into said sleeve and that subsequently springs back toward said initial diameter so that said sleeve grips the cannula; and

a sleeve retainer for supporting said base and said sleeve, said sleeve retainer including a ring member press fit onto an end portion of said sleeve.

**Claim 61 (New):** An apparatus for supporting an endoscope for viewing a surgical site in a patient during surgery on the patient, the endoscope extending through a cannula into the patient, said apparatus comprising:

a base for supporting the endoscope;

a sleeve for engaging an outer surface of the cannula, said base and said sleeve being relatively rotatable about an axis of the cannula, said sleeve having an internal diameter that increases from an

initial diameter as the cannula is inserted into said sleeve and that subsequently springs back toward said initial diameter so that said sleeve grips the cannula; and

a support arm for securing said sleeve to a support structure, said support arm including a first portion for connection to said sleeve and a second portion for interconnecting said first portion and the support structure, said first portion comprising an electrically insulating material electrically insulating said sleeve from said second portion.